

Examiner's Copy

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TI Manufacture of iron-chromium-aluminum alloy powder by
gas atomizing
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PA Sandvik AB, Swed.
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PI	SE 513989	C2	20001211	SE 2000-2	20000101
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	WO 2001049441	A1	20010712	WO 2000-SE2571	20001218
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	BR 2000016950	A	20020910	BR 2000-16950	20001218
	EP 1257375	A1	20021120	EP 2000-990143	20001218
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	JP 2003519284	T2	20030617	JP 2001-549796	20001218
	US 2003089198	A1	20030515	US 2002-168860	20021016
PRAI	SE 2000-2	A	20000101		
	WO 2000-SE2571	W	20001218		
AB	The Fe alloy contains Ta 0.05-0.50 and Ti .ltoreq.0.10 in addn. to Cr 15-25, Al 3-7, Mo .ltoreq.5, Y 0.05-0.60, Zr 0.01-0.30, Hf 0.05-0.50, C 0.01-0.05, N 0.01-0.06, O 0.02-0.10, Si 0.10-0.70, Mn 0.05-0.50, P .ltoreq.0.08, and S .ltoreq.0.005%. The alloy powder is produced by gas atomizing. The atomization gas is N2 contg. a certain amt. of O2 so that the resulting atomized powder contains O2 0.02-0.10 and N2 0.01-0.06 wt.%. The resulting powder has a high oxidn. resistance and is suitable for high-temp. applications (e.g., elec. resistance heaters, supports for exhaust gas catalytic converters).				